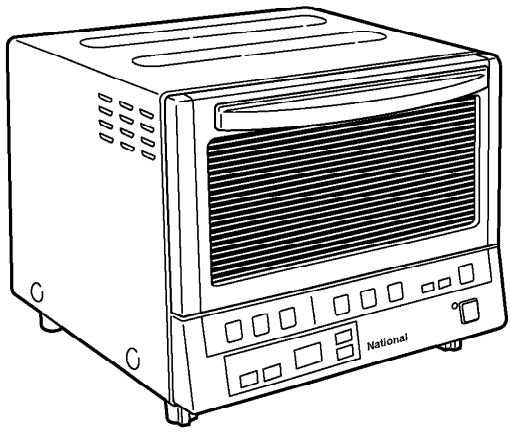
KAD0110454C1

TOASTER OVEN

NB-G100P

USA



SPECIFICATIONS

Specifications

›wer supply:		120V a.c
›wer consumption:		1300W
‹mperature control(approx.):		250°F-500°F (120°C-260°C)
ıner:		0.5-25min
mensions:	Outer dimensions	13”x12”x10.2”(33.0x30.5x26.0)
/xDxH)	Internal dimensions	10.2”x9.8”x4.1”(26.0x25.0x10.5)
›prox.)inch(cm)	Outer tray(inner dimensions)	9.3”x9.3”x0.7”(23.5x23.5x1.8)
eight(approx.):		7.5lbs(3.4kg)
›wer cord length:		36.6inch(93cm)
‹cessories:		Drip pan

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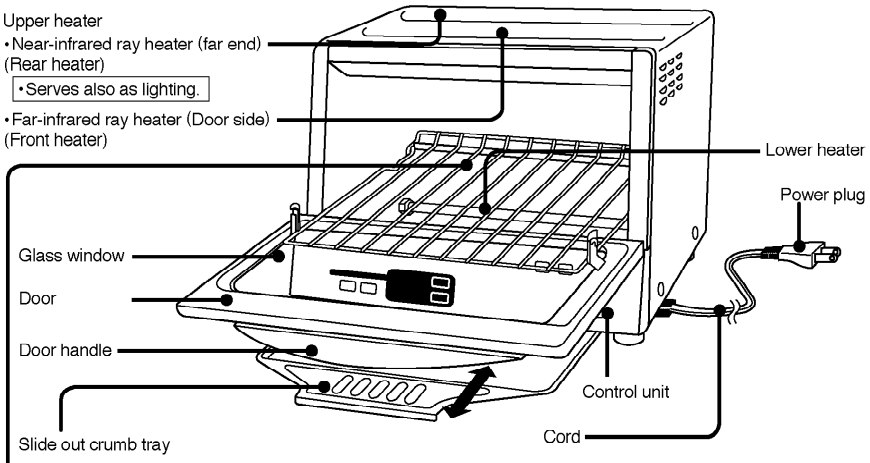
1. PART NAMES AND HANDING INSTRUCTIONS



- Insert the tray up to the far end securely. (If the tray is not properly set, poor cooking might result.)
- Pull the tray toward you to remove.
- Make sure the toaster oven is cold before removing the tray.

- Do not use the cord in a tight bundle. (The cable will become hot and cause malfunction of the toaster oven.)

Note

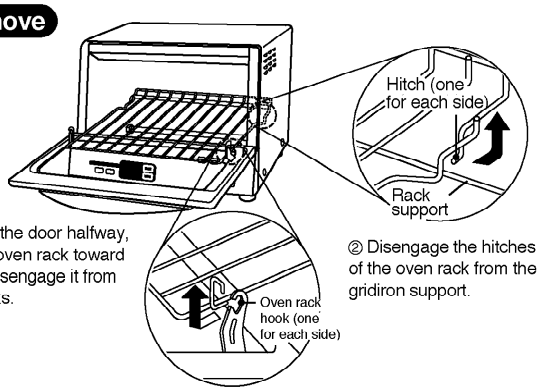
■ The heaters automatically turn off and on during operation to control the temperature during cooking. This is not a problem.

Note

■ Do not open the door during cooking. (Cooking will be un even.)
■ Do not pour water on the glass window, if it is hot. (The glass might break.)

Oven rack (detachable)

To remove



① Open the door halfway, pull the oven rack toward you to disengage it from the hooks.

② Disengage the hitches of the oven rack from the gridiron support.

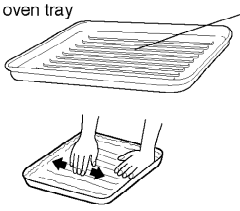
To attach

① Open the door. Engage the hitches of the oven rack onto the rack support inside the toaster oven.

② Pull the oven rack toward you while closing the door halfway and engaging the oven rack onto the hooks.

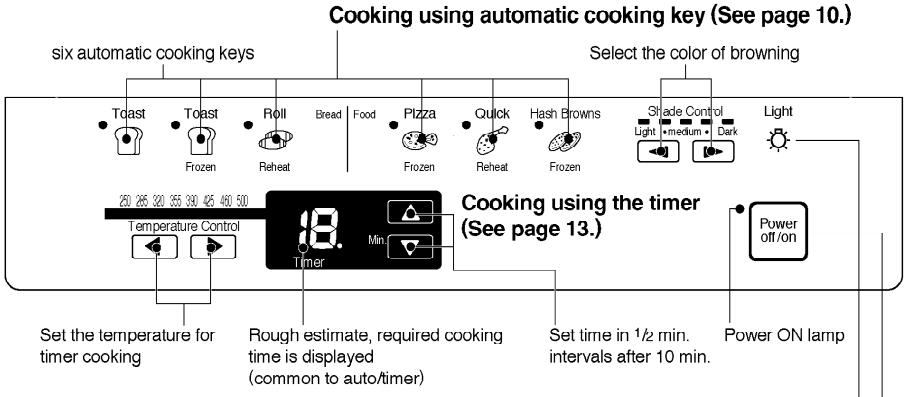
Accessory

1 oven tray



- The tray has a grooved surface for warming cold fries efficiently. (The food might get goove patterns on its bottom.)
- It is good practice to put a sheet of aluminum foil on the oven tray to prevent contamination.
- It is advisable to put a sheet of aluminum foil on the tray, pressing it with fingers along the grooves in the tray to ensure that frozen pizza or cold fries can be crisply cooked.

Operation panel



Lighting (near-infrared ray heater serves also as lighting.)
- Press the lighting button to turn on the near-infrared ray heater to brighten the interior of the toaster oven so that you can check the food. The heater will automatically turn off after a certain time.
- The length of time the near-infrared ray heater is kept on varies with the heating condition.
- You can not turn off the lighting manually.
- Do not press the lighting button successively.
  (The temperature inside the toaster oven will rise which has a bad effect on the result of cooking.)

Power button
- Press to turn on the toaster oven (lamp comes on).
- Press to turn off the toaster oven during operation (lamp goes out).
- Press after use (lamp goes out).

Before using the toaster oven for the first time

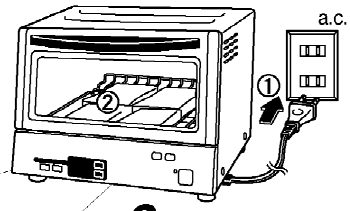
Operate the toaster oven without putting any food inside, leaving the oven tray attached and setting the timer to about 5 minutes and the temperature at 500°F (260°C). (See page 13.)

- Some smoke and odor might developed, but will stop after a while, this is normal when new.
- Make sure the toaster oven is cold before using it.

2. COOKING USING AUTOMATIC KEYS(OPERATING PROCEDURE)

Preparations

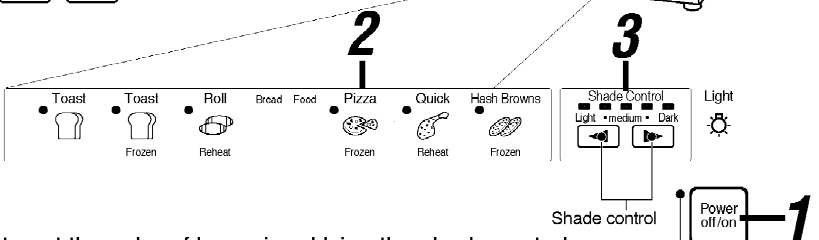
(1) Insert the power plug into the wall outlet.
(2) Put the food inside the toaster oven.



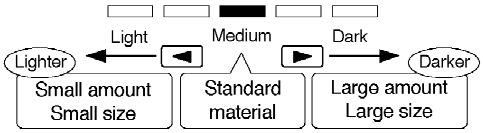
1 Power off/on Press Power button. (Red power lamp comes on.)

2 Press any of the automatic cooking keys. Heater lamp comes on. Power off/on

3 Within 30 seconds, ◄ ► Use the keys to adjust the color of browning



How to set the color of browning: Using the shade control:



•Lighting of the lamps occurs in internals every time the button is pressed.
•The color of browning varies with the type and quantity of food and the size (weight) of each piece.
Adjust according to your preference, referring to "How to control the color of browning" for each recipe.
•Once the toaster oven is set to a color of browning, the next round of cooking will be performed at this setting.
※ The setting stored in memory will be lost if the power plug is removed. The color of browning will be set to medium when the power is turned on.

Cooking starts and the standard cooking time is displayed.

※ 0.5 min. The displayed time counts down in increments of 0.5 minutes during cooking.

Note: For a while after cooking starts, the cooking time blinks. During this time, the baking time is checked. When the cooking time is confirmed, the displayed time stays ON.

When cooking is finished, the buzzer sounds and the power is automatically turned off.

Take out the food with a pot holder (mitten).

•After use:
Power off/on Turn off unit by pressing the power button. The lamp goes out. Remove the power plug.

3. TROUBLESHOOTING GUIDE

Before starting the troubleshooting, check the action of the oven according to the operation check tests 1 & 2 below.

1. Operation check test for the P.C. board

2. Operation check test for the heater and thermistor

3.1. Operation check test for the P.C. board (Do not turn on the power of the heater during the check test.)

No.	Operation	Working description		Items to be chec
		Display and buzzer information	Action	
1	-Set the power button to ON. -Connect the power cord to the 120 V a.c outlet with the temperature keys " " and " " pressed.	-The power lamp comes on. -The timer display "8" and "8.5" blinks in turn. *** The timer display "8" and "8.5" won't be displayed.**	No power is supplied to the heater.	**Check if the mode cha the test one.** *** The mode change wa ended in failure.** **(Perform the operatio again.)**
2	-Press the "Toast" key.	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The "Toast" lamp comes on.		
3	-Press the "Frozen Toast" key.	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The "Frozen Toast" lamp comes on.		
4	-Press the "Reheat Roll" key.	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The "Reheat Roll" lamp comes on.		
5	-Press the "Frozen Pizza" key.	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The "Frozen Pizza" lamp comes on.		
6	-Press the "Reheat Quick" key.	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The " Reheat Quick" lamp comes on.		
7	-Press the "Frozen Hash Browns" key.	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The "Frozen Hash Browns" lamp comes on.		
8	-Press the key " " on the "Shade Control".	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The temperature control lamp "250" comes on. -The temperature control lamp won't come on. -The temperature control lamp "500" comes on.		-The thermistor temperature is -The thermistor temperature is -The thermistor temperature is higher.
9	-Press the key " " on the "Shade Control".	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The baked color lamps of "Light", "Medium" and "Dark" come on one by one in this order repeatedly.		

No.	Operation	Working description		Items to be chec
		Display and buzzer information	Action	
10	-Press the key "Light".	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The "Light" lamp comes on.		* Check the Algon Hea wiring in this step. -When power is supplied to th Heater for 1 sec. -The oven inside becomes bri
11	-Press the key " " on the "Temperature Control".	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The temperature lamps "250" and "500" come on in this order repeatedly.		-The key" " to the tempe not accepted.
12	-Press the key " " on the "Timer".	-The power lamp comes on. -The buzzer sounds once when the key is operated. -"8" and "8.5" on the timer display blink in this order repeatedly.		-The timer key " " won't accepted.
13	After checking, press the power button to finish the test.			

3.2. Operation check test for the heater and thermistor

The precondition for this test is to set the baked color to "Medium".

No.	Operation	Working description		Items to be chec
		Display and buzzer information	Action	
1	-Connect the power cord to the 120 V a.c outlet.	-The power lamp comes on.		-Check the power cord
2	-The power supply button is pushed.	-Power supply indication light lighting.		-The power cord is normal.
3	-Press the "Toast" key.	-The "Toast" lamp comes on. -The cooking time display "2.5 min." blinks. -The cooking time display comes to "0 min." -The buzzer sounds 12 times. -Only the power lamp comes on.	* The heater is heated up to become red. -The heater turns off.	-Check the algon heater. *2 The upper heater ha failure. *2 The lower heater ha failure.
4	Disconnect the power cord from the outlet (to carry out the check test for the thermistor).			
5	-After 10 sec., make sure that the power button is set to "ON". Then, connect the power cord to the 120 V a.c outlet with the temperature " " and the timer " " keys pressed. (test mode)	-The power lamp comes on. -"8" and "8.5" on the timer display blink in this order repeatedly. * "8" and "8.5" on the timer display won't blink.		Check if the mode cha the test one. * The mode change wa ended in failure. (Perform the operatio again.)

No.	Operation	Working description		Items to be chec
		Display and buzzer information	Action	
6	-Press the " ◀ " key of the "Shade Control".	-The power lamp comes on. -The buzzer sounds once when the key is operated. -The temperature lamp "500" comes on.		-The thermistor has no failure.
7	After checking, press the power button to finish the test.			

***1: Check if the power consumption is approx. 1300 W when the power is supplied to the heater, if possible.**
***2: If the light of the algon heater is too strong to check the supply of the power, turn off the heater and visually check it in a dim light.**

4. TABLE OF TROUBLESHOOTING GUIDE

When performing the troubleshooting, see the check point on page XX for the electric resistances of the parts which might cause any trouble.

Notes:
When the power is supplied to the algon heater, it is too bright to visually check the upper heater assy. (far infrared rays heater) and the lower heater assy. (miracron heater) for malfunction or breakage of wire. If the consumption power cannotbe measured, turn off the heater and visually check the dim light of the upper and lower heaters.

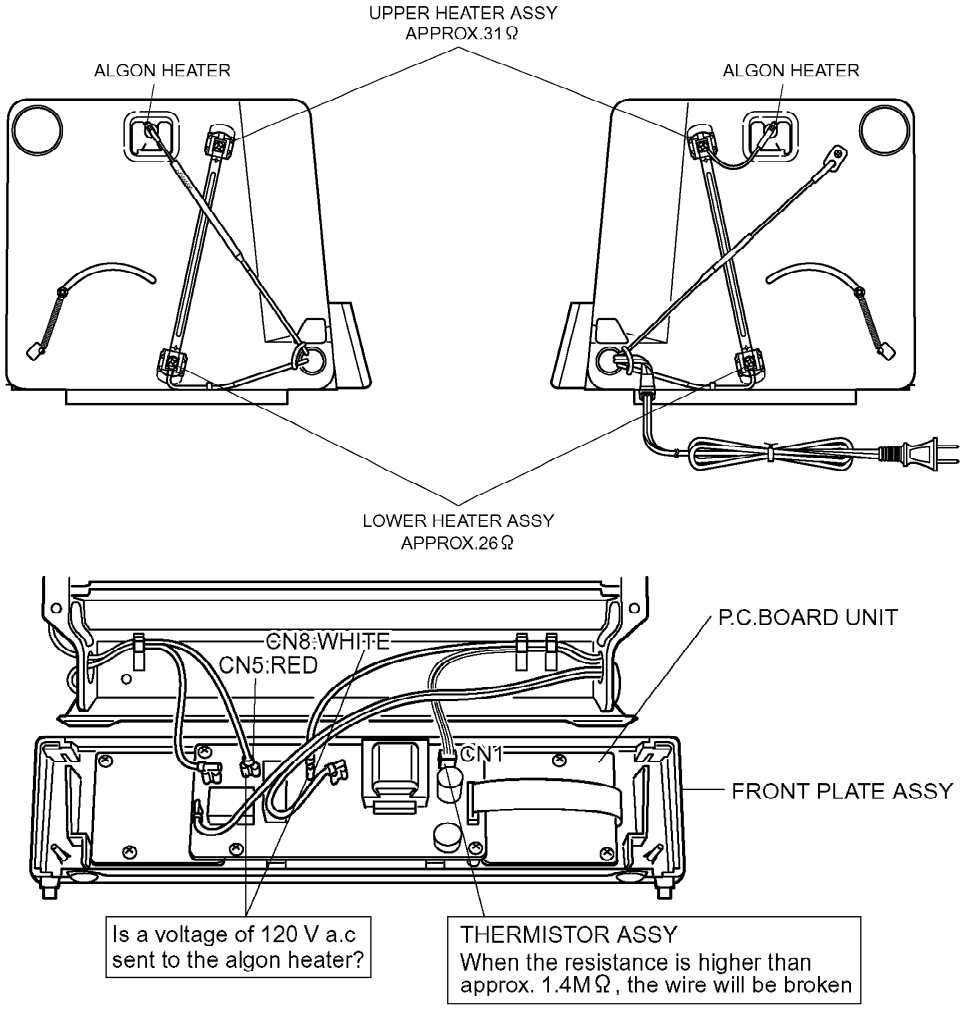
Troubles	Items to be checked	Remed
Power cannot be supplied. -Power cannot be supplied to all heaters. -Power cannot be supplied to all lamps, too.	 -Check the power cord for breakage. -Check the P.C. board for correct connection	 -Replace the powe -Replace the P.C. b
Baked color won't be added to the food upper surface -The algon heater won't emit light.	**Measure voltage** -120 V a.c is sent to CN5 and CN8. -120 V a.c is not sent to CN5 and CN8.	 -Replace the algon -Replace the P.C. b
Baked color won't be added to the food upper surface -Power won't be supplied to the upper heater (far infrared rays heater).	**Measure resistance** -Measure upper heater resistance: approx. 31 Ω -Measure upper heater resistance: None	 -Replace the P.C. b -Replace the upper
Baked color won't be added to the food lower surface -Power won't be supplied to the lower heater (miracron).	**Measure resistance** -Measure upper heater resistance: approx. 26 Ω -Measure upper heater resistance: None	 -Replace the P.C. b -Replace the lower
No switch except the power switch will be accepted. -"H1" is displayed and the toast lamp blinks.	**Measure resistance.** -Measure thermistor resistance: approx. 1.4M Ω or more (Thermistor is broken or short-circuited.)	-Replace the therm
Power is supplied to the algon heater for 5 seconds after cooking starts. After that, no power is supplied to the all heaters.	-The thermistor is short-circuited.	-Replace the therm

Troubles	Items to be checked	Remed
No keys on the operation area is accepted. -Baked color cannot be controlled. -Cooking key cannot be operated. -The LED lamp won't come on.	**Check the P.C. board.** -Terminals on the P.C. board are not connected. -The P.C. board is cracked. -The electronic parts are broken.	-Connect the termi correctly -Replace the P.C. b -Replace the P.C. b

Note:
The unit is controlled with both of the power board and the operation board on the P.C. board unit. Replace the P.C. board unit as a set.

5. Checking Points

The points to checking the thermistors in the upper and lower heaters are indicated below.



6. Disassembly Procedure

Notes:

- Before disassembling the unit, remove the crumb tray, net assy.,

and drip pan.

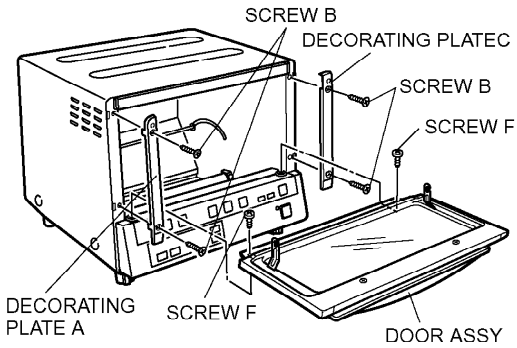
- Reassemble the unit in the reverse order of the disassembly, referring to the points in reassembly.

6.1. Disassembling the door assy, decorating plate A and decorating plate C

1. Remove the two screws F and remove the door assembly.

2. Remove the two screws B and remove the decorating plate A.

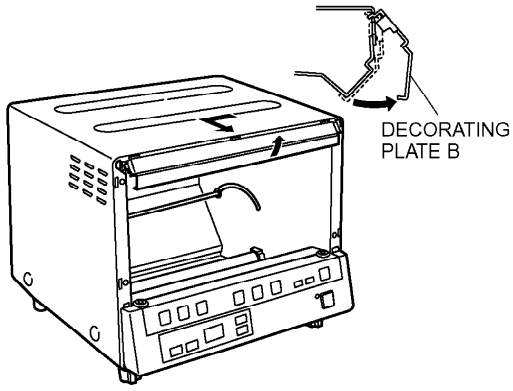
3. Remove the two screws B and remove the decorating plate C.



6.2. Disassembling the decorating plate B

1. Remove the hook (inside the unit) from the frame of the decorating plate B.

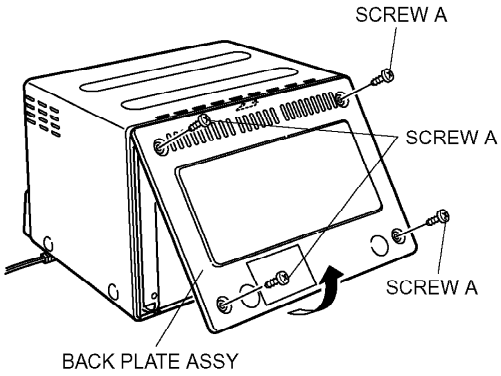
2. Remove the decorating plate B in the direction indicated by the arrows 1 and 2.



6.3. Disassembling the back plate assy.

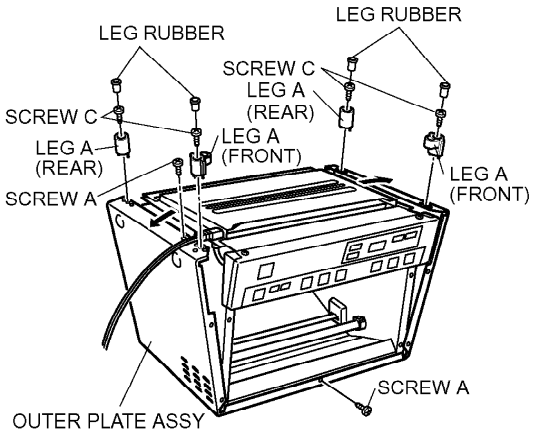
1. Remove the 4 screws A and remove the back plate assy. in the

direction indicated by the arrow.



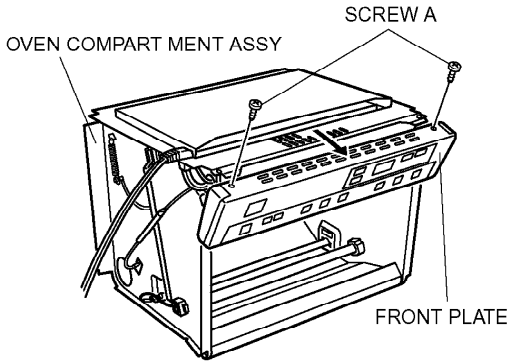
6.4. Disassembling the outer plate assy.

1. **Pull out the 4 leg rubbers.**
2. **Remove the 2 screws C and remove the front leg.**
3. **Remove the 2 screws C and remove the rear leg.**
4. **Remove the 2 screws A and remove the outer plate assy.**

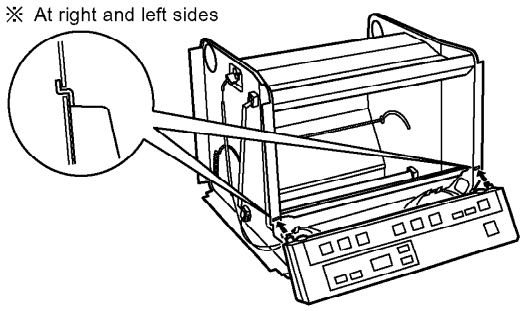


6.5. Disassembling the front plate

1. **Remove the 2 screws A.**
2. **Remove the 2 tabs from the oven compartment assy. and remove the front plate.**



The point in reassembly
Reinstall the front plate by inserting the tabs (at right and left sides) to the step mark.



6.6. Disassembling the upper heater assy. and the lower heater assy.

Disassembling the upper heater assy.

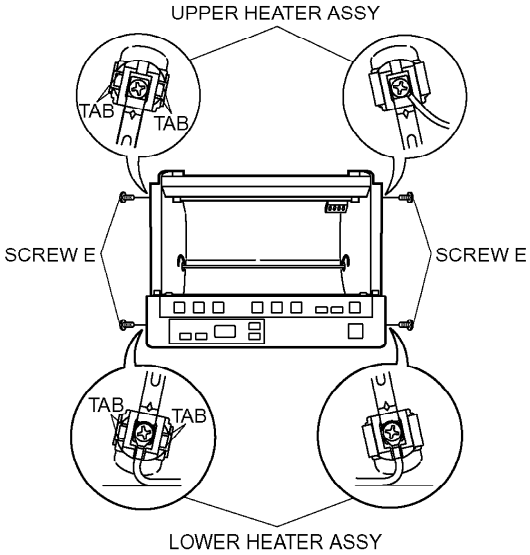
1. **Remove the 2 screws E.**
2. **Roll out the tab locking the upper heater assy. with a pair of small pliers.**
3. **Remove the upper heater assy.**

Disassembling the lower heater assy.

1. **Remove the 2 screws E.**
2. **Roll out the tab locking the lower heater assy. with a pair of small pliers.**
3. **Remove the lower heater assy.**

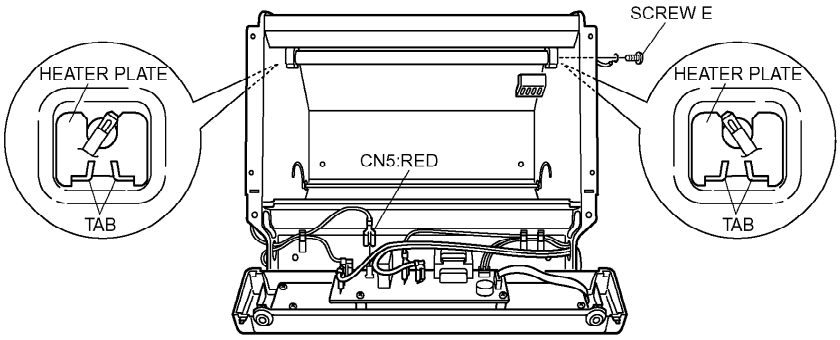
The points in reassembly
How to distinguish between upper heater assy. and lower heater assy.

Heater	Difference	Resistance at room temperature
Upper heater assy.	The pipe is yellow.	Approx. 31 Ω
Lower heater assy.	The pipe is white.	Approx. 26 Ω



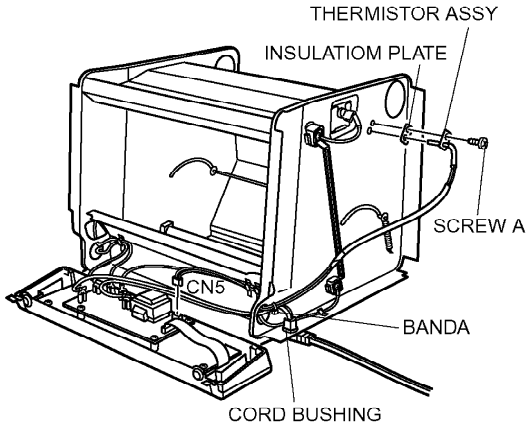
6.7. Disassembling the algon heater assy.

1. Remove the 2 screws E.
2. Remove the fasten terminal (CN5: red and CN8: white) from the P.C. board unit.
3. Roll out the tab locking the algon heater assy. with a pair of small pliers.
4. Remove the heater plate.
5. Remove the algon heater assy.



6.8. Disassembling the thermistor assy.

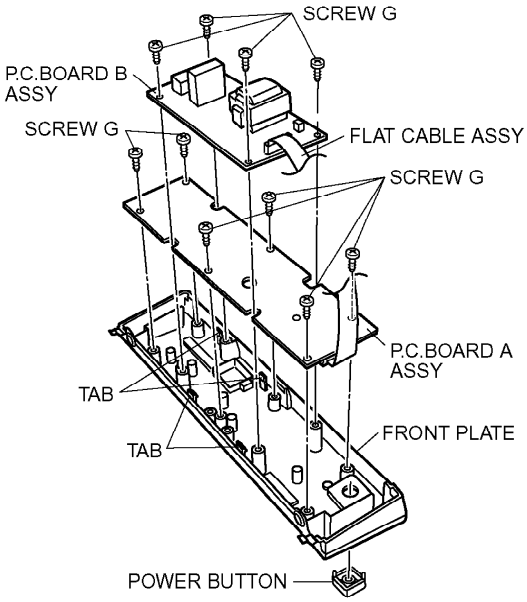
1. Remove the fasten terminal (CN5: blue) from the P.C. board unit.
2. Cut the band.
3. Remove the screw A.
4. Remove the insulation plate and thermistor assy.



6.9. Disassembling the P.C. board unit

1. Remove the fasten terminal and connector from the P.C. board unit.
2. Remove the 4 screws G and remove the P.C. board B assy.
3. Remove the 6 screws G.
4. Spread out the 4 holding tabs to remove the P.C. Board A assy.

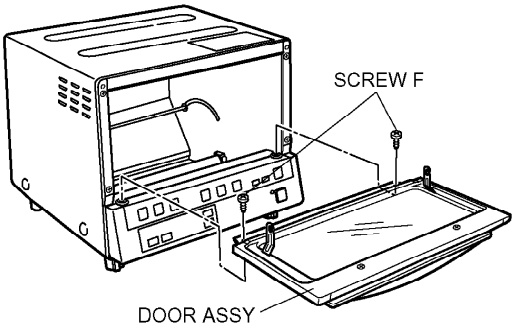
***1.The flat cable assy. is connected.**
***2.Use caution not to loose the power button.**



6.10. Disassembling the door assy.

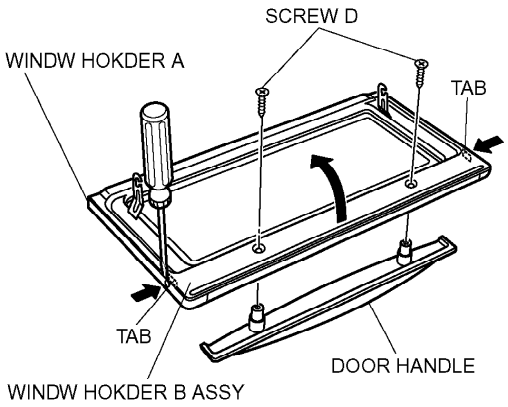
6.10.1. DOOR

1. Remove the 2 screws.
2. Remove the door assy.



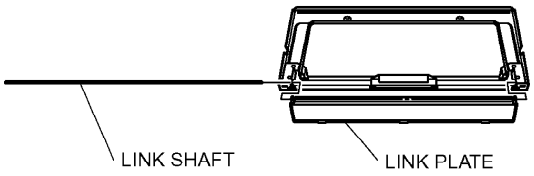
6.10.2. DOOR HANDLE

1. Remove the 2 screws D.
2. Remove the door handle.
3. Insert the thin screwdriver between the window holder A and window holder B, and remove the 2 tabs.
4. Remove the window holder A and the window holder B assy. in the direction indicated by the arrow.



6.10.3. WINDOW HOLDER

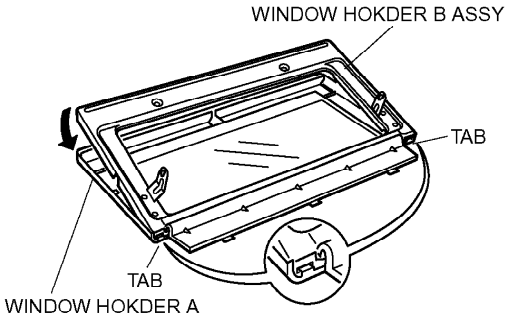
1. Pull out the link shaft and remove the link plate from the window holder B assy.



6.10.3.1. Points in reassembly

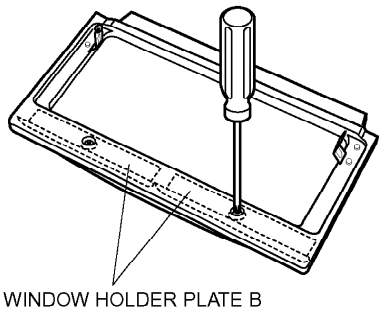
WINDOW HOLDER A&B

1. Insert the 2 holders on the window holder A into the holes on the window holder B assy. to install the window holder A and the window holder B in the door assy.



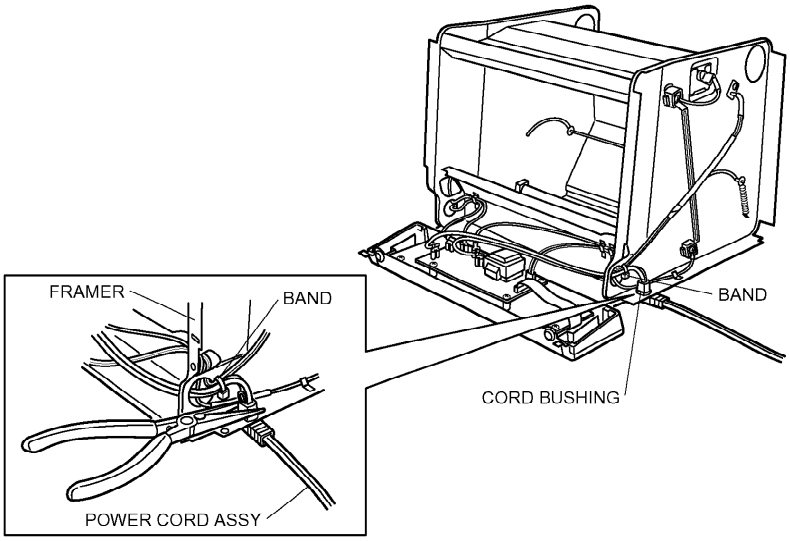
GLASS A&DOOR HONDLE

1. **Adjust the clearance between the window holder plate B and glass A, and install the door handle.**



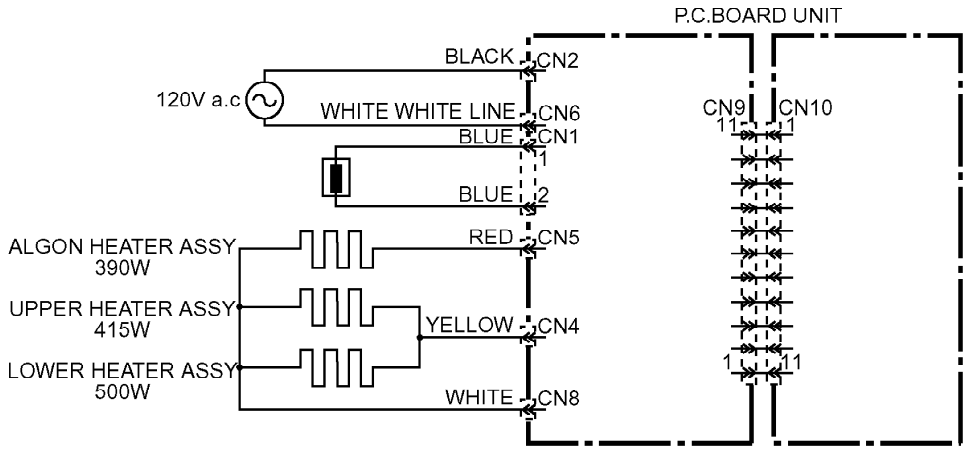
6.10.4. Disassembling the power cord assy.

1. **Cut the band out.**
2. **Remove the power cord assy. fasten terminal from the P.C. board unit.**
3. **Remove the power cord assy. from the frame R.**

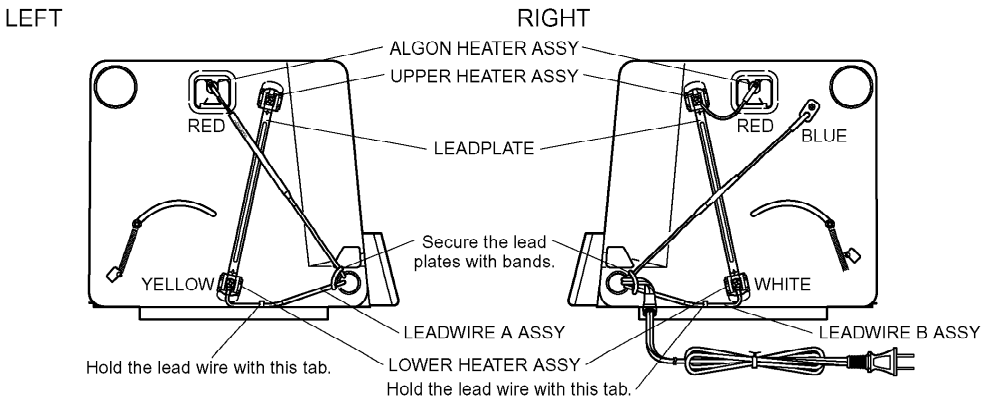


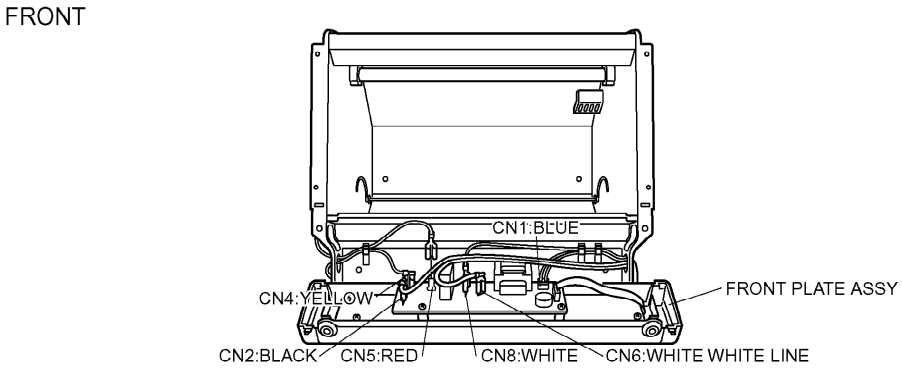
7. CIRCUIT DIAGRAM

7.1. SCHEMATIC DIARAM

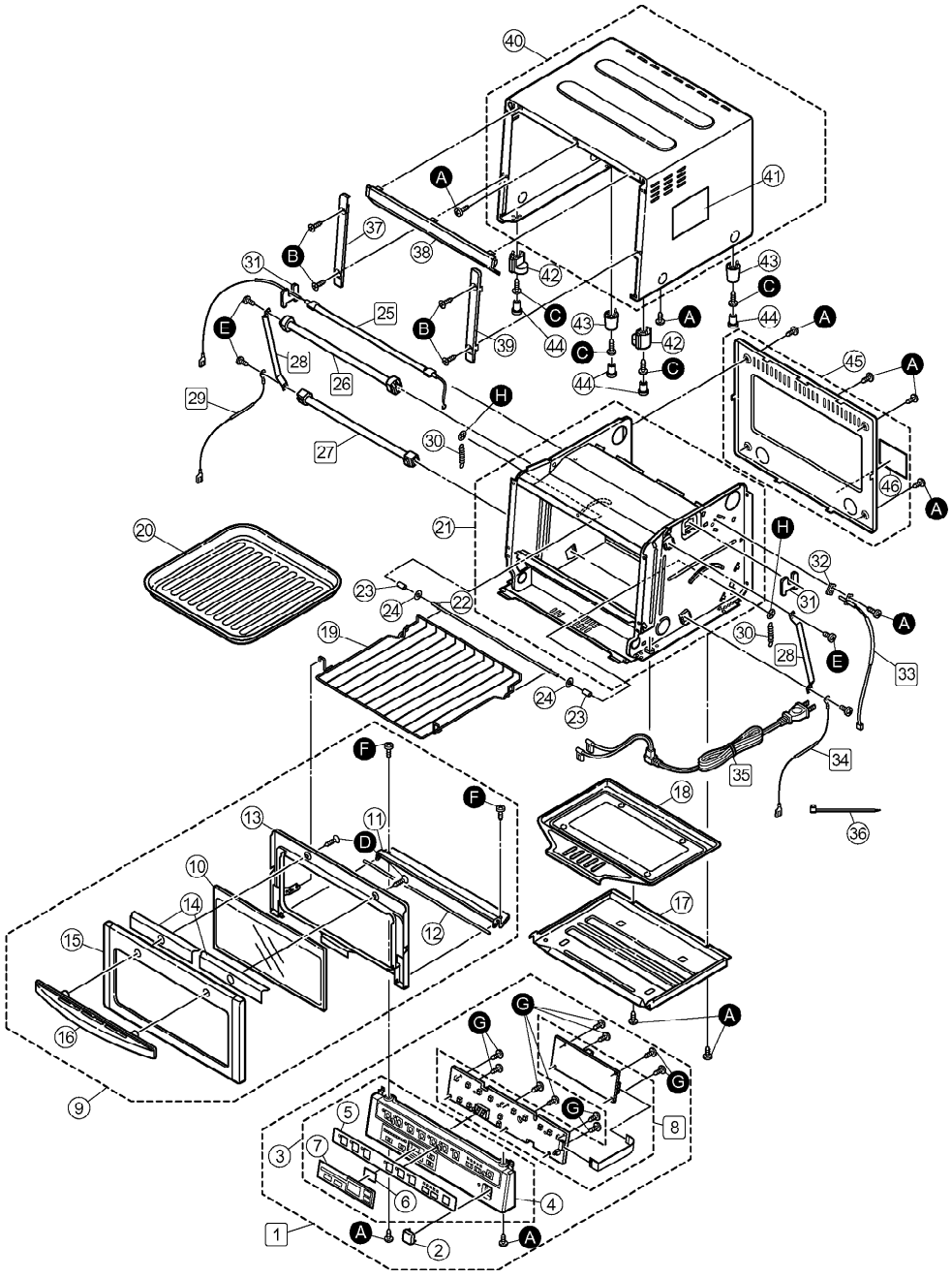


7.2. BASIC WIRING DIAGRAM





8. PARTS LOCATION



9. REPLACEMENT PARTS LIST

Important safety notice :

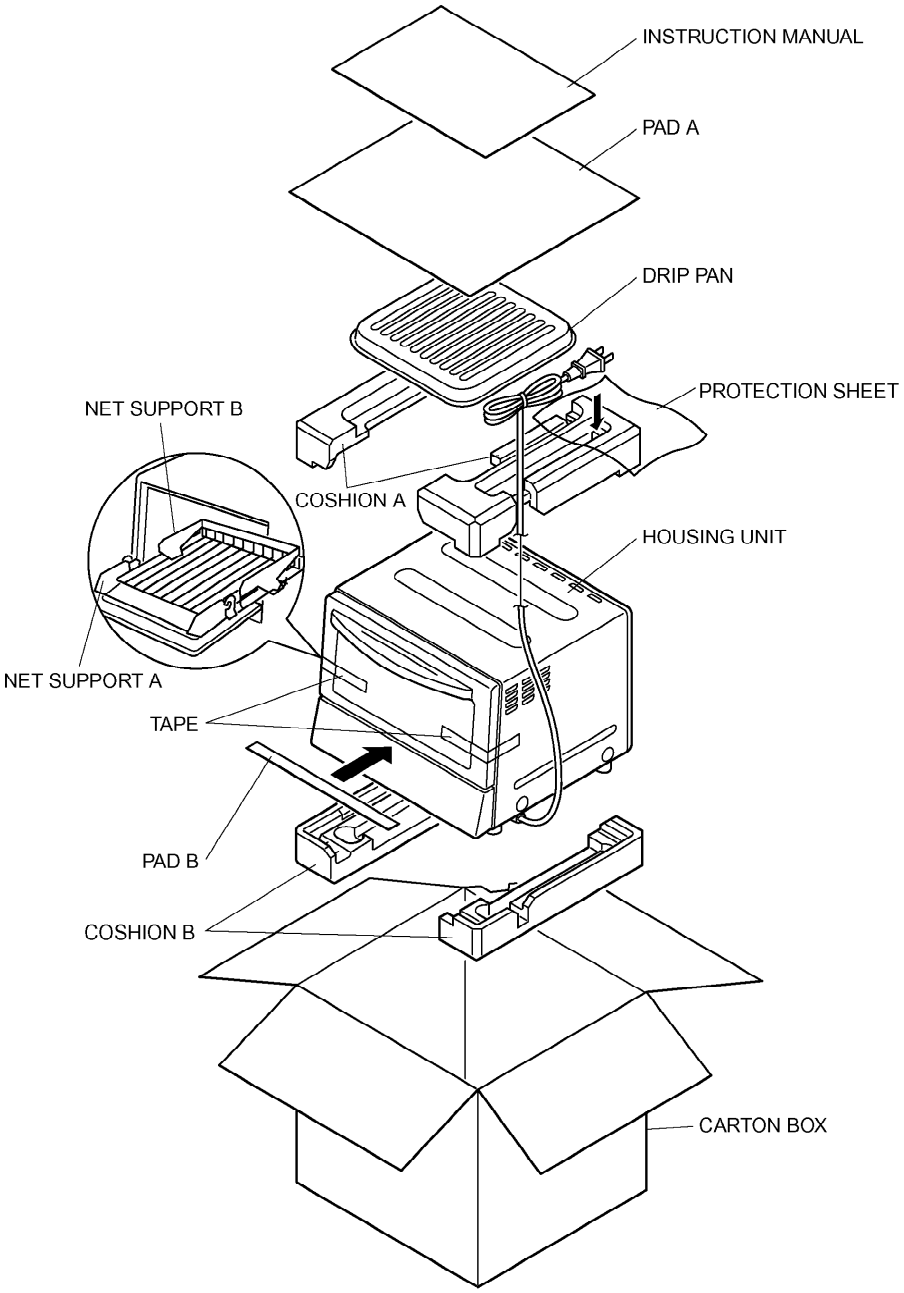
Components identified by ⚠ mark have special characteristics important for safety.

When replacing any of these component, use only manufacturer's specified part.

Ref. No.	Part No.	Part Name & Description	Remarks
1	ABA11-148-WU	FRONT PLATE ASSY.	
2	ABF03A135-CO	POWER BUTTON	
3	ABA29-148-WU	FRONT PLATE UNIT	
4	ABC10-148-W0	FRONT PLATE	
5	ABF70-148-W0	ESCUTCHEON A	
6	ABG65A135	TRANSPARENT BOARD	
7	ABF73-148-W0	ESCUTCHEON B	
8	ABB98-148-0U	P.C.BOARD UNIT	⚠
9	ABA18-148-WU	DOOR ASSY	
10	ABC28-148	GLASS A	
11	ABD42-135	LINK PLATE	
12	ABD55-135	LINK SHAFT	
13	ABA16-135	WINDOW HOLDER B ASSY	
14	ABC25-135	WINDOW HOLDER PLATE B	
15	ABC21-135-W0	WINDOW HOLDER A	
16	ABC31-135	DOOR HANDLE	
17	ABC15-135	BOTTOM PLATE	
18	ABC40-135	CRUMB TRAY	
19	ABA50-148	NET ASSY	
20	ABK00-135	DRIP PAN	
21	ABA38-135-0U	OVEN COMPARTMENT ASSY	
22	ABH20-115	NET HOLDER	
23	ABH09-115	SLEEVE	
24	ABJ01-135	WASHER A	
25	ABA86-148-0U	ALGON HEATER ASSY.	⚠
26	ABA80-148-0U	UPPER HEATER ASSY.	⚠
27	ABA83-148-0U	LOWER HEATER ASSY.	⚠
28	ABP25-135	LEADPLATE	⚠
29	ABB00-148-0U	LEADWIRE A ASSY.	⚠
30	ABD50-135	DOOR SPRING	
31	ABG08-135	HEATER PLATE	
32	ABH01-135	INSULATION PLATE	
33	ABB58-148-0U	THERMISTOR ASSY.	⚠
34	ABB01-148-OU	LEADWIRE B ASSY.	⚠
35	ABB50-148-0U	POWER CORD ASSY.	⚠
36	ABP93-135	BAND	
37	ABF60-135	DECORATING PLATE A	
38	ABF61-135	DECORATING PLATE B	
39	ABF62-135	DECORATING PLATE C	
40	ABA05A148-WU	OUTER PLATE ASSY	
41	ABY20A146-W0	SEAL A	
42	ABF40-135	LEG A (FRONT)	
43	ABF41-135	LEG B (REAR)	
44	ABF43-116	LEG RUBBER	
45	ABA10A148-WU	BACK PLATE ASSY	
46	ABY00-148	RATING LABEL	
A	XTN3+8AFX	PANN HEAD TAPPING SCREW	
B	XTS3+8AFN	FLUSH HEAD TAPPING SCREW	
C	XTN3+12AFX	PANN HEAD TAPPING SCREW	
D	XTS35+20BFN	FLUSH HEAD TAPPING SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
E	XSB35+6FN	BINDING HEAD MACHINE SCREW	
F	XTN3+8BFX	PANN HEAD TAPPING SCREW	
G	XTB3+10BFX	BINDING HEAD TAPPING SCREW	
H	CSTW-3	PUSH NUT	
	ABZ04-148-W	CARTON BOX	
	ABZ06-135	CUSHION A	
	ABZ07-135	CUSHION B	
	ABZ51-148	INSTRUCTION MANUAL	
	ABZ40-135	NET SUPPORT A	
	ABZ41-148	NET SUPPORT B	
	ABZ19-135	PAD A	
	ABZ20-135	PAD B	
	ABZ37-146	PROTECTION SHEET	

10. PACKING INSTRUCTION


INSTRUCTION MANUAL
PAD A
DRIP PAN
PROTECTION SHEET
NET SUPPORT B
COSHION A
HOUSING UNIT
NET SUPPORT A
TAPE
PAD B
COSHION B
CARTON BOX